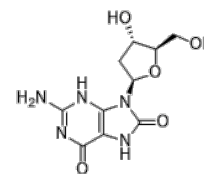


Product Name : Acmiribine
Cat. No. : PC-27402
CAS No. : 88847-89-6
Molecular Formula : C₁₀H₁₃N₅O₅
Molecular Weight : 283.24
Target : Small GTPase
Solubility : 10 mM in DMSO



Biological Activity

Aciribine (8-Hydroxy-2-deoxyguanosine, 8-OHdG) is a small molecule Rac1 inhibitor, suppresses NO production and COX-2 activity via Rac1/STATs signaling in LPS-induced brain microglia.

Aciribine (8-Hydroxy-2-deoxyguanosine, 8-OHdG) significantly reduces plaque formation along with reduced superoxide formation, monocyte/macrophage infiltration, and extracellular matrix (ECM) accumulation in mice.

Aciribine (8-Hydroxy-2-deoxyguanosine, 8-OHdG) significantly inhibits angiotensin II-induced Rac1 activity in VSMCs.

Aciribine (8-Hydroxy-2-deoxyguanosine, 8-OHdG) stabilizes Rac1-GEF complex, indicating the physical contact of 8-OHdG with Rac1.

Aciribine (8-Hydroxy-2-deoxyguanosine, 8-OHdG) suppresses allergy-induced lung tissue remodeling in mice, inhibits allergy-induced inflammation and remodeling in airway and lung tissues through Rac inactivation.

Aciribine (8-Hydroxy-2-deoxyguanosine, 8-OHdG) could prevent liver fibrosis by inhibiting Rac1-NADPH oxidase 2 (NOX2) signaling in this MASH model.

References

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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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